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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/073,115	02/12/2002	Shuang Chu Tsai		2330	
7590 12/18/2003			EXAM	EXAMINER	
Liberty Patent & Trademark Office			MUSSER, BARBARA J		
P.O. Box 590	106		ART UNIT	PAPER NUMBER	
Taichung City, TAIWAN	406		1733	THE EXTRACTOR	
			DATE MAILED: 12/18/200	3	

Please find below and/or attached an Office communication concerning this application or proceeding.

		At	1
	Application No.	Applicant(s)	-
	10/073,115	TSAI, SHUANG CHU	
Office Action Summary	Examiner	Art Unit	
	Barbara J. Musser	1733	
The MAILING DATE of this communication a		th the correspondence address	
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perion. - Failure to reply within the set or extended period for reply will, by state - Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b). Status	1. 1.136(a). In no event, however, may a reply within the statutory minimum of thirtid will apply and will expire SIX (6) MON ute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
1) Responsive to communication(s) filed on			
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.		
Since this application is in condition for allow closed in accordance with the practice under			
Disposition of Claims			
4)⊠ Claim(s) <u>1 and 2</u> is/are pending in the applic	ation.		
4a) Of the above claim(s) is/are withdr			
5) Claim(s) is/are allowed.			
6) Claim(s) 1 and 2 is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	or election requirement.		
Application Papers			
9) The specification is objected to by the Examin	ner.	•	
10) The drawing(s) filed on is/are: a) a	· ·	· ·	
Applicant may not request that any objection to the	• , ,		
Replacement drawing sheet(s) including the corre	_).
11) The oath or declaration is objected to by the I	Examiner. Note the attached	Oπice Action or form P1O-152.	
Priority under 35 U.S.C. §§ 119 and 120		2.440(-) (1) == (0	
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of:	gn priority under 35 U.S.C. §	3 119(a)-(d) or (t).	
1. Certified copies of the priority docume			
2. Certified copies of the priority docume3. Copies of the certified copies of the priority			
application from the International Bure		received in this National Stage	
* See the attached detailed Office action for a list	st of the certified copies not		
13) Acknowledgment is made of a claim for domes since a specific reference was included in the f 37 CFR 1.78.			
a) The translation of the foreign language p			
14) Acknowledgment is made of a claim for domes reference was included in the first sentence of			
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview S	ummary (PTO-413) Paper No(s)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of In	formal Patent Application (PTO-152)	
U.S. Patent and Trademark Office PTOL-326 (Rev. 11-03) Office	Action Summary	Part of Paper No. 4	4

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1 and 2 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear whether one or two elastomers are formed as the claim states forming the elastomer and the gasbag and then trimming and then states forming them in more detail again. It is suggested that line 2 of claim 1 be removed. It is unclear whether the first face and the second face of the elastomer are formed during the injection molding or if there is shaping afterwards as the claim indicates the insert is formed, then indicates the first and second faces are formed. It is unclear when the holes are formed in the elastomer. In line 8, it is unclear what is occurring. While "the injection molder" does not lack antecedent basis, the injection molder feeding the plastic film is not the injection molder which forms the elastomer. It is suggested this be described as "another injection molder" or "a second injection molder". It is unclear what air is being removed in line 12 as the claim does not disclose whether vacuum is applied to the interior or exterior of the plastic film particularly since the claim indicates air is still present after the vacuum is applied.

Claim 1 recites the limitation "the cylindrical plastic film or plastic sheet" in line 9.

There is insufficient antecedent basis for this limitation in the claim.

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Regarding claim 2, it is unclear whether one gasbag is produced at a time or more are. It is suggested the second "gasbags" in line 2 be changed to –gasbag--.

Claim Objections

3. Claim 2 is objected to because of the following informalities: in claim 2, line 3, proper English indicates "enveloping" should be –envelop--. Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Diaz et al.(U.S. Patent 5,005,300) in view of McLaughlin(U.S. Patent 5,979,078), Hopperdietzel(U.S. Patent 4,911,878), Pavesi et al.(U.S. Patent 5,987,781), and Luthi(U.S. Patent 5,461,800)

Diaz et al. discloses an elastic pad for a shoe sole made of an elastomer having holes running parallel to the top and bottom faces which are open to the outside. (Figure 6; Abstract) The reference discloses holes can be closed but to does specify how other than that the elastomer can cover them. (Col. 5, Il. 63-67) McLaughlin discloses it is known in the shoe insert art to form enclosed areas in the insert by surrounding the

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insert but the reference does not disclose the specifics of the formation of the outer bladder(gasbag) only that it is welded around the inner.(Col. 1, II. 29-46; Figures 3 and 5)

Hopperdietzel discloses forming a reinforcement for athletic equipment(Col. 2, II. 64) by placing the reinforcement on a positioning rod and placing it between the two halves of a mold. Material is extruded as a tubular preform around the reinforcing member.(Col. 5, II. 6) The mold is then closed and the gas forced between the reinforcement and the extruded material, forcing the material against the mold walls. The positioning rod is withdrawn and the product is formed.(Figure 3; Col. 5, II. 32-66) It would have been obvious to one skilled in the art at the time the invention was made to form the shoe insert of Diaz et al. via the method of Hopperdietzel since this would prevent the insert from moving around inside the gasbag(Col. 2, II. 1-3) particularly since Pavesi et al. discloses it is known to have open ended reinforcing elements within a sealed shoe insert.(Figure 4; Col. 4, II. 37-39)

The reference cited above do not disclose how the elastomeric insert is formed. Luthi discloses it is known to form elastomeric inserts for shoes which have openings running longitudinally by injection molding.(Col. 3, II. 40-44) It would have been obvious to one of ordinary skill in the art at the time the invention was made to form the insert of Diaz et al. by injection molding since Diaz et al. is silent as to the method of formation and since Luthi et al. discloses it is known to form elastomeric inserts for shoes by injection molding.(Col. 3, II. 40-44)

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While the reference does not require vacuum to pull the material against the mold walls, such is well-known and conventional in the molding arts. It would have been obvious to one skilled in the art at the time the invention was made to use vacuum to pull the material against the mold walls in addition to pressing them with air since such is well-known and conventional in the art.

While Hopperdietzel intends the positioning rod to be removed from the mold, one in the art would appreciate that the rod could instead form a portion of the final product. It would have been obvious to one skilled in the art at the time the invention was made to make the positioning rod part of the final product to prevent the difficulties with removing it during the process.

Although Hopperdietzel does not specifically disclose trimming the margins of the outer bladder, Figure 5 shows material external to the mold which is not shown in the final product (Figures 8-10) Thus one in the art would understand that the outer bladder was trimmed to remove excess material.

Regarding claim 2, McLaughlin discloses a formed periphery for the outer bladder.(Figure 2) The layers are pressed together via the mold.(Col. 6, II. 3-6) One in the art would appreciate that the mold edges would be heated to insure the edges formed a secure bond.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Barbara J. Musser** whose telephone number is **(703)**-

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305-1352 until December 20 when it changes to (571) 272-1222. The examiner can normally be reached on Monday-Thursday; alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on 703-308-3853. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

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